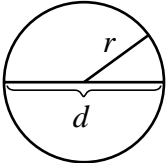
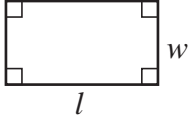
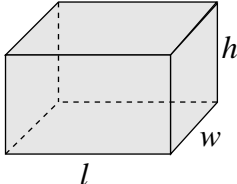
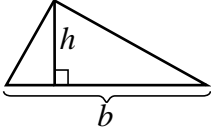
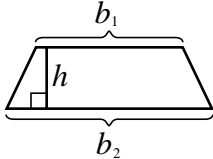
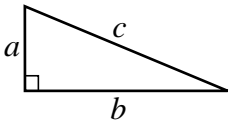
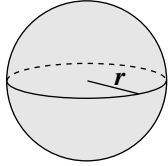
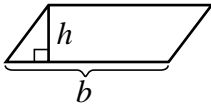
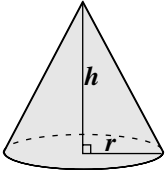
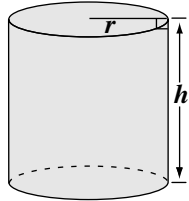


MATHEMATICS REFERENCE SHEET

*Use the information below to answer questions on the Mathematics section of the
March 2004 Grade Eight Proficiency Assessment (GEPA).*

$$\pi \approx 3.14 \text{ or } \frac{22}{7}$$

Circle Area = πr^2 Circumference = $2\pi r$ $= \pi d$ 	Rectangle Area = lw Perimeter = $2(l + w)$ 
Rectangular Prism Volume = lwh Surface Area = $2lw + 2wh + 2lh$ 	Triangle Area = $\frac{1}{2}bh$ 
Trapezoid Area = $\frac{1}{2}h(b_1 + b_2)$ 	Pythagorean Formula $c^2 = a^2 + b^2$ 
Sphere Volume = $\frac{4}{3}\pi r^3$ Surface Area = $4\pi r^2$ 	Parallelogram Area = bh 
Cone Volume = $\frac{1}{3}\pi r^2h$ 	Cylinder Volume = πr^2h 

*Use the following
equivalents for your
calculations:*

12 inches = 1 foot

3 feet = 1 yard

36 inches = 1 yard

5,280 feet = 1 mile

1,760 yards = 1 mile

10 millimeters = 1 centimeter

100 centimeters = 1 meter

1000 meters = 1 kilometer

16 ounces = 1 pound

2,000 pounds = 1 ton

1000 milligrams = 1 gram

100 centigrams = 1 gram

10 grams = 1 dekagram

1000 grams = 1 kilogram

60 seconds = 1 minute

60 minutes = 1 hour

24 hours = 1 day

7 days = 1 week

30 days = 1 month

52 weeks = 1 year

1000 watt hours =

1 kilowatt hour

8 fluid ounces = 1 cup

2 cups = 1 pint

2 pints = 1 quart

4 quarts = 1 gallon

1000 milliliters (mL) =

1 liter (L)

The sum of the measures of the interior angles of a triangle = 180°

The measure of a circle is 360° or 2π radians

Distance = rate \times time Interest = principal \times rate \times time

Simple Interest Formula: $A = p + prt$ Compound Interest Formula: $A = p(1 + r)^t$

A = amount after t years; p = principal; r = annual interest rate; t = number of years;

The number of r -combinations of a set of size n is given by $\frac{n!}{(n-r)!r!}$

The number of r -permutations of a set on n elements is given by $\frac{n!}{(n-r)!}$

